

a first end of said pin having an end portion with a first pressure surface, said end portion matingly received by said first end of said passage, substantially blocking said passage at said retracted position;

D3 a second end of said pin includes a second pressure surface, said second end extending into a variable pressure fluid reservoir;

wherein said pin can extended or retracted by any of: adjusting fluid pressure at said first pressure surface, adjusting fluid pressure at said second pressure surface, or adjusting fluid pressure at both of said first and said second pressure surfaces.

IN THE SPECIFICATION:

The specification stands objected to as missing the Brief Summary of the Invention, Brief Description of the Drawings, and the Abstract of the Disclosure. Please add the following three sections in their entirety where indicated.

Please add the following two sections, beginning at page 2, line 17 of the instant patent application, after the Background of the Invention Section:

BRIEF SUMMARY OF THE INVENTION

D4 In one aspect, the present invention provides a nozzle for the injection of fluid into a molding chamber. The nozzle includes a hollow passage having a distal end for connecting a pressurized fluid supply to the interior of the chamber. In addition, the nozzle has a pin extending through the passage and reciprocal between an extended position and a retracted position. The pin has an enlarged distal portion extending beyond the distal end of the passage. The enlarged distal portion substantially blocks the passage when the pin is in its retracted position, and has a pressure surface exposed to

pressurized fluid supplied through the passage. Fluid pressure at said enlarged distal portion and/or an actuator are used to reciprocate the pin.

DA

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a side-view of an automated pin for a gas-assisted injection molding system according to a preferred embodiment of the present invention.

Please add the following Abstract of the Disclosure Section as a separate page, after the section entitled Claims:

ABSTRACT OF THE DISCLOSURE

Automated Pin for Gas Assisted Injection Molding System

A nozzle for the injection of fluid into a molding chamber is provided. The nozzle includes a hollow passage having a distal end for connecting a pressurized fluid supply to the interior of the chamber and a pin extending through the passage, the pin being reciprocal between an extended position and a retracted position. The pin has an enlarged distal portion extending beyond the distal end of the passage that substantially blocks the passage when the pin is retracted. The pin has a pressure surface exposed to pressurized fluid from the hollow passage and an actuator operably coupled to the pin. Fluid pressure on the pressure surface and the action of the actuator reciprocates the pin.

REMARKS:

Rejections Under §112

Claims 1, 7 and 11 stand rejected under 35 U.S.C. §112, second paragraph, as indefinite. Applicant has amended the subject claims to resolve the issues raised by the